HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES

Forms explosive mixtures with oxidizers such as oxygen, chloride, or fluorine. Sunlight explodes a mixture of chlorine and methane (2 volumes of chlorine with one of methane).

PHYSICAL DATA

BOILING POINT -258.6 F (-161.5 C)	**LIQUID DENSITY AT BOILING POINT** 26.5 lb/ft^3 (424.5 kg/m^3)
VAPOR PRESSURE at 70 F (21.1 C) Above the critical temperature.	**GAS DENSITY AT 70°F, 1 atm** 0.0417 lb/ft^3 (.667 kg/m^3)
SOLUBILITY IN WATER at 68 F, 1 atm. 3.3 cm^3/100 cm^3	**FREEZING POINT** -296.5 F (-182.5 C)
APPEARANCE AND ODOR Colorless, odorless, tasteless	

FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used) Gas	**AUTO IGNITION TEMPERATURE** 999 F (537 C)	**FLAMMABLE LIMITS % BY VOLUME** LEL 5% UEL 15%
EXTINGUISHING MEDIA Carbon dioxide or dry chemical.		**ELECTRICAL CLASSIFICATION** D

SPECIAL FIRE FIGHTING PROCEDURES

Stop flow of gas. Use water to keep adjacent areas cool. Alow the fire to burn itself out.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Air containing more than 14% methane burns without noise. Forms explosive mixtures with air or oxygen.

REACTIVITY DATA

STABILITY **Unstable**		**CONDITIONS TO AVOID** Do not expose to heat or flame.
Stable	X	

INCOMPATIBILITY (Materials to avoid)

Noncorrosive

HAZARDOUS DECOMPOSITION PRODUCTS

Ethylene, acetylene, hydrogen (only at very high temperatures)

HAZARDOUS POLYMERIZATION **May Occur**		**CONDITIONS TO AVOID**
Will Not Occur	X	

SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Ventilate area to prevent flammable mixture from forming. Remove sources of ignition, heat, sparks, etc. Avoid entering area of flammable atmosphere. Carefully remove cylinders with slow leaks to a remote, outdoor location. Contact Air Products for assistance.

WASTE DISPOSAL METHOD

Do not attempt to dispose of residual methane in cylinders. Return to Air Products for disposal with positive pressure in cylinder, cylinder valve tightly closed, and valve caps in place.